

ABSTRACT OF THE DISCLOSURE

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At least one carcass ply (3) is formed by depositing a strip-like element (13) comprising longitudinal thread-like elements (13a) incorporated into a layer of elastomer material (13b), onto a toroidal support (11). Deposition of the strip-like element (13) takes place in alternated deposition sections (23, 24) each comprising two radially-extending side portions (23a, 24a, 23c, 24c) and a crown portion (23b, 24b) extending at a radially external position. The side portions of each deposition section (23, 24) are at least partly overlapped with side portions belonging to an adjacent deposition section. Associated with the carcass ply (3) are annular structures (4) comprising a circumferentially inextensible annular insert (32) axially external to an anchoring element (31). A belt structure (5), a tread band (8) and sidewalls (9) are combined with the thus formed carcass structure (2) to define a tire (1) to be submitted to a vulcanization step.

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